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AMENDMENTS TO THE CLAIMS

1. (PREVIOUSY PRESENTED) A machine for making a non-woven

material by aerological means comprised of:

a forming and conveying surface for the non-woven material,

which is permeable to air,

a dispersion chamber surmounting the forming and conveying

surface.

means of supplying the dispersion chamber with fibers

intended to form the non-woven material,

means, particularly vacuum means, located under the forming

and conveying surface of the non-woven material that are capable

of producing an air flow inside the dispersion chamber that

allows the fibers inside the chamber to disperse and projects

them onto the forming and conveying surface,

characterized by the fact that said vacuum means

capable of producing a vacuum in a zone--called the vacuum

zone--of the forming and conveying surface of the non-woven

material that extends under the dispersion chamber

downstream from it, with a reduction in vacuum speed between the

upstream and downstream parts of said zone.

(CURRENTLY AMENDED) The machine in Claim 1, characterized

by the fact that since the downstream wall of the vacuum chamber

lower edge of said plate, the downstream

delimits -- along with the upper end of the forming and conveying

surface of the non-woven material -- a space for passage whose

height e is greater than the thickness of the non-woven material

coming out of the dispersion chamber.

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3-21. (CANCELLED)

22. (NEW) The machine in Claim 2, characterized by the fact

that the height e is 5 to 50 mm.

23. (NEW) The machine in Claim 2, characterized by the fact

that the lower edge of the downstream wall is comprised of a

rotary cylinder, potentially porous.

24. (NEW) The machine in Claim 1, characterized by the fact

that the vacuum means are comprised of a single vacuum tank in

which the vacuum conditions vary from the upstream to the

downstream part of the vacuum zone.

25. (NEW) The machine in Claim 1, characterized by the fact

that the vacuum means are comprised of a multi-stage vacuum

tank, with each stage having distinct vacuum conditions.

26. (NEW) The machine in Claim 25, characterized by the fact

that a first stage developing the highest vacuum speed (V1) is

located under the dispersion chamber in the primary section of

the vacuum zone extending up to the distance (d) perpendicular

to the lower edge of the downstream wall of the dispersion

chamber and by the fact that at least one second stage,

developing a vacuum speed V2 less than V1 extends downstream

from the first stage over a secondary section of the vacuum

zone.

27. (NEW) The machine in Claim 26, characterized by the fact

that the distance d is from 5 to 20 mm.

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28. (NEW) The machine in Claim 26, characterized by the fact that in the secondary section of the vacuum zone, it has only one second stage in which the vacuum speed (V2) decreases gradually from upstream to downstream of said secondary section.

29. (NEW) The machine in Claim 26, characterized by the fact that in the secondary section of the vacuum zone, it has a plurality N of successive second stages.

30. (NEW) The machine in Claim 29, characterized by the fact that the vacuum speed (V3) is constant in each of these N second stages.

31. (NEW) The machine in Claim 29, characterized by the fact that the vacuum speed (V4) in each of the N second stages gradually decreases from upstream to downstream of said stage.

32. (NEW) The machine in Claim 29, characterized by the fact that the vacuum speed (V5) is constant in some second stages and gradually decreases from upstream to downstream in other second stages.

33. (NEW) The machine in Claim 1, characterized by the fact that it has at least one compressive roller above the secondary section.

34. (NEW) The machine in Claim 33, characterized by the fact that:

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in the secondary section of the vacuum zone, it has a plurality N of successive second stages; and

the compressive roller is placed at right angles to the interface between two successive second stages.

35. (NEW) The machine in Claim 33, characterized by the fact that the compressive roller is a short distance (T) from the perpendicular of the lower edge of the downstream wall of the dispersion chamber, preferably a distance from 10 to 30 mm.

36. (NEW) The machine in Claim 22, characterized by the fact that:

the lower edge of the downstream wall is comprised of a rotary cylinder, potentially porous;

the vacuum means are comprised of a single vacuum tank in which the vacuum conditions vary from the upstream to the downstream part of the vacuum zone;

the vacuum means are comprised of a multi-stage vacuum tank, with each stage having distinct vacuum conditions.

37. (NEW) The machine in Claim 36, characterized by the fact that:

the distance d is from 5 to 20 mm;

in the secondary section of the vacuum zone, it has only one second stage in which the vacuum speed (V2) decreases gradually from upstream to downstream of said secondary section;

in the secondary section of the vacuum zone, it has a plurality N of successive second stages.

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The machine in Claim 37, characterized by the fact 38.

that the vacuum speed (V3) is constant in each of these N second

stages.

The machine in Claim 37, characterized by the fact 39. (NEW)

that:

the vacuum speed (V4) in each of the N second stages

gradually decreases from upstream to downstream of said stage;

the vacuum speed (V5) is constant in some second stages and

gradually decreases from upstream to downstream in other second

stages.

The machine in Claim 2, characterized by the fact 40.

that it has at least one compressive roller above the secondary

section.

The machine in Claim 22, characterized by the fact 41.

that it has at least one compressive roller above the secondary

section.

The machine in Claim 36, characterized by the fact

that it has at least one compressive roller above the secondary

section.

The machine in Claim 37, characterized by the fact 43.

that it has at least one compressive roller above the secondary

section.

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44. (NEW) The machine in Claim 39, characterized by the fact that it has at least one compressive roller above the secondary section.

45. (NEW) The machine in Claim 34, characterized by the fact that the compressive roller is a short distance (T) from the perpendicular of the lower edge of the downstream wall of the dispersion chamber, preferably a distance from 10 to 30 mm.